

Enrollment No: _____



INDUS UNIVERSITY IITE
Constituent Institutes of Indus University

X-CE0622-005

Semester: VI

Branch: CE/IT/CSE

END SEMESTER EXAMINATION – MAY 2023

Subject Code: CE0622

Subject Name: Internet of Things

Date: 15/05/2023

Time: 02:00 PM-05:00 PM

Day: Monday

Total Marks: 100

Instructions:

1. Attempt all questions
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicates full marks

- Q.1** A List the applications of IoT in various fields. Explain any three application in detail with a proper example. 10
- B Draw block diagram of Physical Design of IoT and explain each block in detail. 10
- Q.2** A List out the steps involved in IOT system design methodology and explain operational view specification in detail. 10
- B Explain SaaS, PaaS, IaaS in detail. 10
- Q.3** A Discuss various security and privacy issues in the Internet of things. 10
- B Draw open IOT architecture and explain each block in detail. 10
- Q.4** A List the features of ESP8266. Compare ESP8266 and Arduino board. 10
- B What is cloud computing ? What are Basic Cloud Characteristics? 10
- Q.5** Any Four
- A Draw the connection diagram of interfacing a buzzer with arduino and write a program to generate different tone using PWM. 05
- B Write a program to interface Ultrasonic sensor with arduino board. 05
- C Write a program to Interface LDR sensor and print light intensity on serial terminal. 05
- D Explain the use of the following functions of arduino. 05
1. analogWrite()
 2. Serial.println()
- E Describe GPIO library and its functions available in raspberry pi. 05

F Explain the following functions.

1. WiFi.begin()
2. WiFi.config()

05

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